## Approved For Release 200 2/2/2/2 CIA-RDP78B05171A000100010178-2

NPIC/TESG/DED-1144-68 22 March 1968

	MEMORANDUM FOR: Chief, Technical Services & Support Group	
25X1	SUBJECT : High Precision Stereo Comparator	
6.	1. The Executive Director of NPIC has requested a recommendation from us concerning the probability of technical success of the High Precision Stereo Comparator. The following is an analysis of the potential problem areas and a recommendation from the Development & Engineering Division.	25X <sup>-</sup>
25X1	2. There are four major areas of consideration: the mechanical implementation of the Comparator, the interferometer measuring system, the correlation system, and the optics package. With regard to the first three items, and their primary subcontractor, have these areas well in hand. There are some reservations, however, about the optics.	25X
25X1	3. Regarding the optics, we have had a series of conversations with our optical consultant, and a very conservative scientist. The latest of these discussions took place today and	
25X1	and relates to (1) previous discussions between trip to control (project officer) and to (2) trip to control con-	25X 25X 25X
25X1 25X1	sultant) and	25X; <b>25X</b> ; 25X;
25X1 25X1	a. He feels that  is an extremely capable optical theoretician and  is conscientious and highly capable engineer, though no optical expert, and that these two individuals have considerable confidence in  ability to perform.	25X <sup>-</sup>
25X1	b. He was neither able to affirm nor negate capabil- ity, having been able to quote historical examples of both poor and excellent performance. It would realistically require a visit on his part to and time precludes our taking this approach prior to negotiation.	25X
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25X1	SUB	High Precision Stereo Comparator	
25X1	1	c. feels that the optical system can be built.  He also feels that possibly two companies in the United States.	
25X1	*	night be able to do a superior job to nowever, he also felt that this would be an unrealistic recommendation since we couldn't possibly afford it. The price of an optical system such as this from these firms could run anywhere from 3 to 5 times	25X1
25X1	1	d. The only way that could really confirm or negate the design would be to essentially rerun the entire system. The magnitude of this task is essentially to redesign it himself—he has neither the time nor the inclination. It is too complex for any other approach to provide a very positive answer on his part.	25X1
25X1	1	efurther felt that taking his best current know-ledge of the system, and what we want to use it for, that it is fairly probable that the ultimate system as designed will fall slightly below the stated specifications but would be close enough to those specifications to still produce an acceptable instrument then suggested to me that with these caveats he felt it would be realistic for us to go ahead with as a contractor because if certain areas of the system did not work out, e.g., the zoom lens anamorph etc., we would still be able to redesign these elements at a cost still considerably less than the alternative of going to someone else.	25X1 25X1
		4. It appears reasonable to us, all things considered:  a. That there isn't a 100% probability of success of the opti-	
	•	b. That the probability of an acceptable system somewhat less than meeting the specifications is reasonably high;	
		c. That the cost of going to would be pro- hibitive both in terms of the cost of the optical system itself and in delays to the prime contract;	25X1
25X	1	d. That since ecommends it is contractually poor practice to force them to some other subcontractor since this essentially gives them an "out" if performance is substandard.	25X1
		everta State stick ett oka et   holffillettic es sameatiteta.	25X1
25X	1	e. Under the anticipated contractual relationship, is still responsible for performance. We should continue to hold them responsible.	25X1
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25X1	SUBJECT: High Precision Stereo Comparator	
25X1 25X1	5. It is our recommendation that we permit to subcontract the optics package to since we have no reasonable alternative; further, we will attempt to write into the contract every reasonable safeguard we can; i.e., close monitoring, tight specifications, and contractual guarantees.  Finally, we recommend that inspect the optical train at during the early stages of fabrication to make sure that nothing is going	25) 25)
	awry. We can then make any corrections needed at the earliest possible date.	
		25)
-	Chief, Development & Engineering Division, TSSG	
25X1	Distribution: Orig & 1 - Addressee 1 - NPIC/TSSG/DED 2 - NPIC/TSSG/DED TILES	
25X1	NPIC TSSG/DED/ (22 Mar 68)	

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